

METHODS AND CIRCUITRY FOR REDUCING INTERMODULATION IN INTEGRATED TRANSCEIVERS

ABSTRACT OF THE DISCLOSURE

Methods and circuitry reduce adverse impacts of intermodulation and optimize performance of integrated circuits that include two or more oscillator circuits on the same chip. In one embodiment, intermodulation between voltage-controlled oscillators (VCOs) in the receiver and transmitter paths of a transceiver is reduced by adjusting relative power of the VCOs and/or bandwidths of the phase-locked loops (PLLs). The invention measures the injection lock frequency range of the VCOs based on which transmitter and receiver VCO power and loop bandwidths are adjusted.

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